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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/726,785	11/30/2000	Matheus Godefridus Johannus Bel	PHN 17,756	1992

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[REDACTED] EXAMINER

SHAPIRO, LEONID

[REDACTED] ART UNIT

[REDACTED] PAPER NUMBER

2673

DATE MAILED: 07/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/726,785 Examiner Leonid Shapiro	Applicant(s)
	BEL ET AL.
	Art Unit 2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 30 nov 2000 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____

Art Unit: 2673

Information Disclosure Statement

1. The information disclosure statement filed 05/14/02 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because it is not implemented using PTO-1449 form. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description:

On page 3, Line 26 refers to “display surface 14”. Fig.1 shows display surface 4.

On page 4, Line 13 refers to “display surface 14”. Fig.1 shows display surface 4.

On page 5, Line 10 refers to “output amplifier 12”. Fig.2 shows output amplifier 21.

Fig. 2 has a second item 21.

Fig. 3 has an arrow 50 and relates to whole device. On page 5, Line 21 refers to “peripheral part 50,51”.

The item 44 on Fig. 4 has no description in the specification.

Art Unit: 2673

A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to under 37 CFR 1.83(a) because they fail to show “sloping ramp part 55” in Fig.5 as described in the specification. Specifically recommended to use perspective view as for example shown in Tsuruoka et al. reference (Fig. 4), sited by the examiner. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities:

On page 3, Line 26 refers to “display surface 14”. Fig.1 shows display surface 4.

On page 4, Line 13 refers to “display surface 14”. Fig.1 shows display surface 4.

On page 5, Line 10 refers to “output amplifier 12”. Fig.2 shows output amplifier 21.

Fig. 3 has an arrow 50 and relates to whole device. On page 5, Line 21 refers to “peripheral part 50,51”.

On page 5, Line 22 refers to “ a cross-sectional taken on a line”. What line? What Fig.?

On page 5, Line 24 refers to “theses”. Probably, should be ‘these’.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-3 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a) In claim 1, Lines 2, 4, 7 a reference made to items 50, 51 as peripheral part. On Fig. 3, item 50 has an arrow and pointed to the whole panel. It is not clear if 50 and 51 are both peripheral parts.

b) In claim 3, Lines 18, 20 a reference made to items 50, 51 as peripheral part. On Fig. 3, item 50 has an arrow and pointed to the whole panel. It is not clear if 50 and 51 are both peripheral parts.

c) In claim 1, Line 6 a reference made to "a sloping ramp (55)". The specification and drawings do not show or describe a sloping ramp in perspective or in plane.

Art Unit: 2673

d) In claim 3, Line 24 a reference made to "at some distance". It is not clear what is meant by at the distance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

6. Claim 1 rejected under 35 U.S.C. 102(e) as being anticipated by Tsuruoka et al. (US Patent No. 6,373,190 B1).

Tsuruoka et al. teaches about a display device having:

a plate provided with longitudinal channels and peripheral part adjacent to at least one side of the channels, (See Fig. 4, items 41, 42, in description
See Col. 5, Lines 3-19)

in which channels electrodes are provided, which electrodes exit the channels on the peripheral part, characterized in that the peripheral part extends in a plane between a bottom plane through the bottoms of the channels and a top plane through the top of the channels, (See Fig. 4, items 41, 42, in description See Col. 5, Lines 3-19)

and each channel has a sloping ramp sloping from the bottom plane to the plane and ending in the peripheral part (See Fig. 4, items 41, 42, in description See Col. 5, Lines 3-19).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 2 rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuruoka et al. in view of Asano et al. (US Patent No. 6,353,288 B1).

Tsuruoka et al. teaches about a display device with electrodes are provided at the bottom of the channels and each channel with the central part having a first depth, flanked at least on preferably both sides by a second portion having a reduced depth and fourth portion with the sloping ramp (See Fig. 4, items 41, 42, in description See Col. 5, Lines 3-19). Tsuruoka et al. does not teach about the second and third portion forming a groove in the plate, in which groove a sealing material is provided.

Asano et al. teaches about the grooves and bonding materials (See Fig. 7, items 1,2,13,24, in description See Col. 5, Lines 33-53).

Art Unit: 2673

It have been obvious to one of ordinary skills in the art at the time of invention to include grooves with sealing materials as shown by Asano et al. in Tsuruoka et al. apparatus in order to complete assembly of the product.

8. Claim 3 rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuruoka et al. in view of French (US Patent No. 6,400,423 B1).

Tsuruoka et al. teaches about manufacturing ribs of a plasma display using a flexible roller-intaglio. (See in description Col. 2, Lines 41-44). Tsuruoka et al. does not show how to use grinding wheels to produce a sloping ramp.

French teaches about channels being formed by mechanical grinding (See Col. 3, Lines 24-26).

It have been obvious to one of ordinary skills in the art at the time of invention to incorporate manufacturing method as shown by French in Tsuruoka et al. apparatus in order to complete assembly of the product.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- The Fukuta et al. (US Patent No. 6,191,530 B1) reference discloses an electrode for a display and method for manufacturing the same.
- The Blazzo et al. (US Patent No. 4,164,678) reference discloses a planar AC plasma panel.

Art Unit: 2673

- The Khan et al. (US Patent No. 6,285,127 B1) reference discloses a plasma addressed liquid crystal display with etched glass spaces.
- The Bongaerts et al. (US Patent No. 5,596,431) reference discloses a plasma addressed liquid crystal display with etched electrodes.
- The Van Helleputte et al. (US Patent No. 6,057,895) reference discloses a plasma addressed liquid crystal display with deposited plasma channels with tapered edges.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 703-305-5661. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

ls
July 17, 2002



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